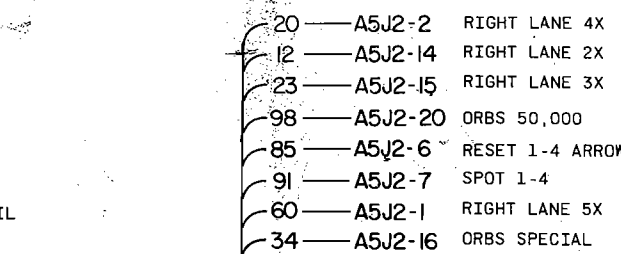
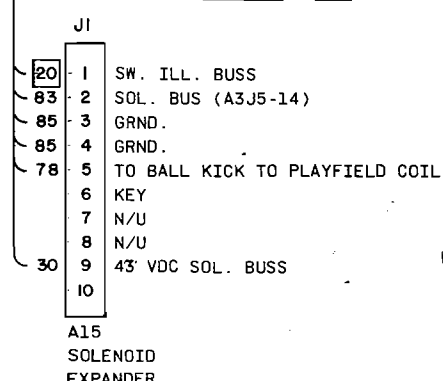


NOTES

- INDICATES NOT USED
- N/U = NOT USED ON PLAYFIELD
- * INDICATES AID TEST POINT
- COIL DIODES ARE IN4004 (E-587-6) SWITCH DIODES ARE IN4148 (E-587-14) ALL CAPACITORS ARE .05 MFD. (E-586-80)
- GERMANY ONLY - CAPACITOR .01 MFD. @ 500 V. (E-586-65)



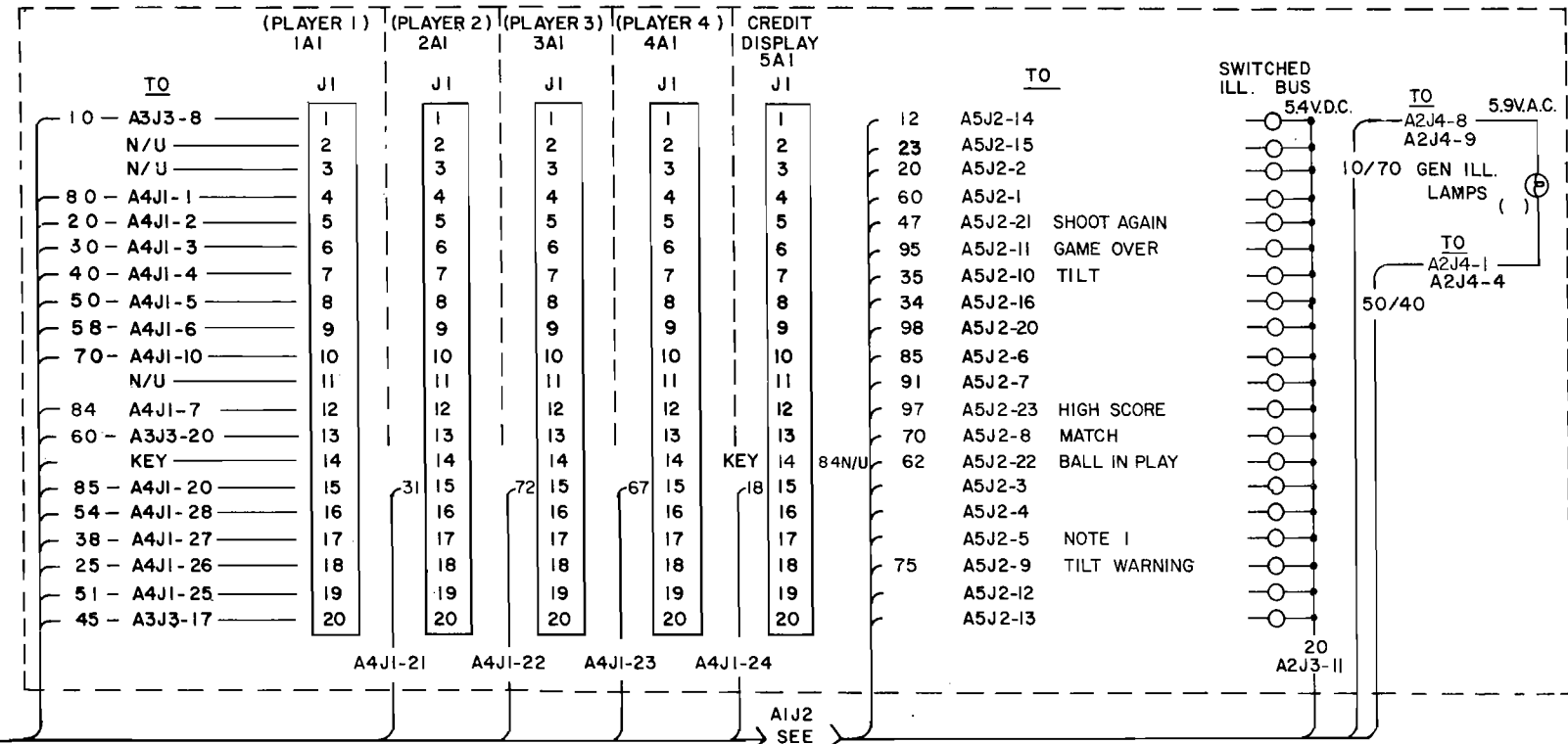
REMOVE ALL BURS		DR. BY J.C.	DATE 6-22-61	Bally MANUFACTURING CORP. 2640 BELMONT AVENUE CHICAGO, ILLINOIS		1239
TOLERANCES ON DIMENSIONS UNLESS OTHERWISE SPECIFIED FRACTIONS = 008 DECIMALS = .003 EXCEPT HOLE DIA.'S ANGLES = 1/2"		APTD BY J.D.	DATE 7-22-61	PRINT CONTROL	DIE SIZE - C.C. - FT PER M -	LBS PER M -
DO NOT SCALE DRAWING		FINISH:	NAME	WIRING DIAGRAM PLAYFIELD		ASSEM NO USE
		HARDENING:	MATERIAL	CENTAUR		PART NO
			CODE			W-1192-32 c

TABLE A AIJ2

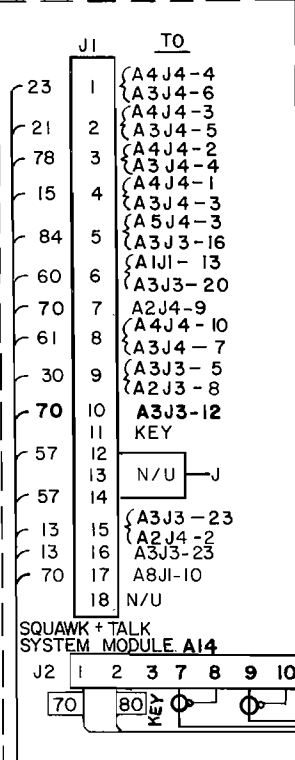
FROM	PIN	WIRE
A2J3-11	1	20
A5J2-14	2	12
A2J4-1	3	50
A2J4-8	4	10
A5J2-23	5	97
A5J2-15	6	23
A5J2-22	7	62
A5J2-8	8	70
A5J2-1	9	60
A5J2-2	10	20
A5J2-11	11	95
A5J2-21	12	47
A5J2-10	13	35
A5J2-7	14	91
A5J2-6	15	85
A5J2-20	16	98
A5J2-16	17	34
A2J4-4	18	40
A2J4-9	19	70
A5J2-13	20	
A4J4-5	21	72
A5J2-9	22	75
A4J4-16	23	96
A8J1-7	24	70

INSERT TO BACK CAB PLUG

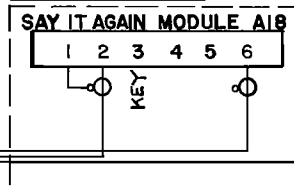
AI INSERT



AIJ2 SEE TABLE A



FROM	PIN	WIRE
A2J4-4	1	40
A2J4-1	2	90
A2J3-2	3	18
A2J3-3	4	51
A2J4-8	5	92
A2J3-11	6	20
A2J3-10	7	70
A2J3-8	8	30
A2J4-9	9	70
A2J4-8	10	10
A2J3-9	11	90
A2J3-4	12	58
A2J3-5	13	52
A2J3-6	14	82
A2J3-1	15	58
A2J3-7	16	50
A2J4-2	17	13
A2J4-3	18	57
A2J3-12	23	74
A2J4-7	24	85

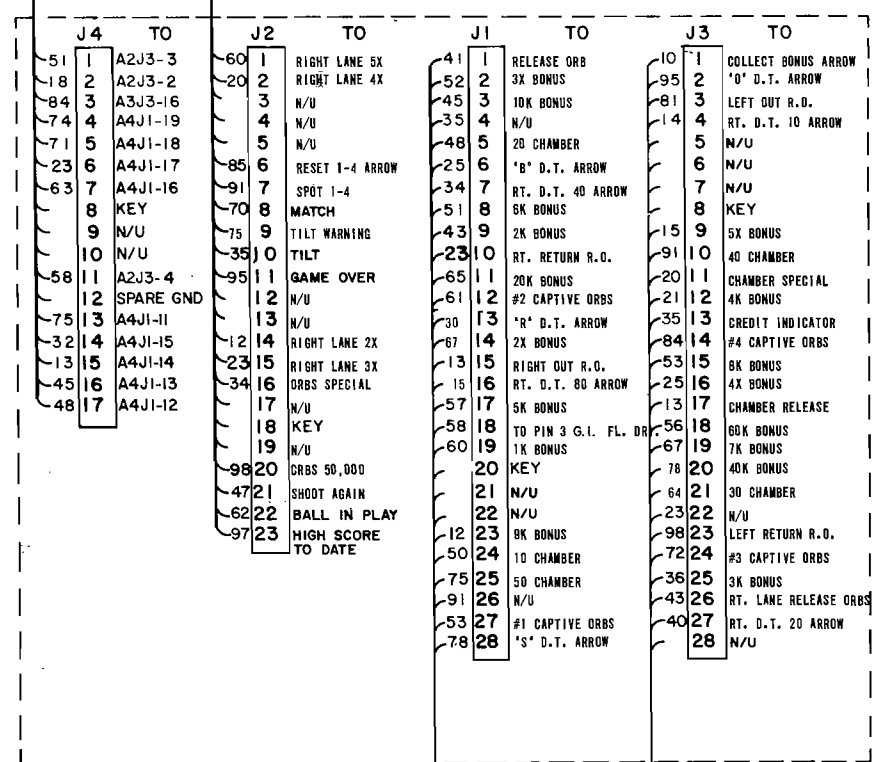


FROM	PIN	WIRE
A9J3-10	1	25
A9J3-14	2	27
A9J2-13	3	40
A9J2-17	4	43
A9J2-6	5	45
A9J2-9	6	54
A9J2-5	7	60
A9J2-12	8	62
A9J3-7	9	82
A9J3-4	10	95
A9J3-13	11	98
	12	

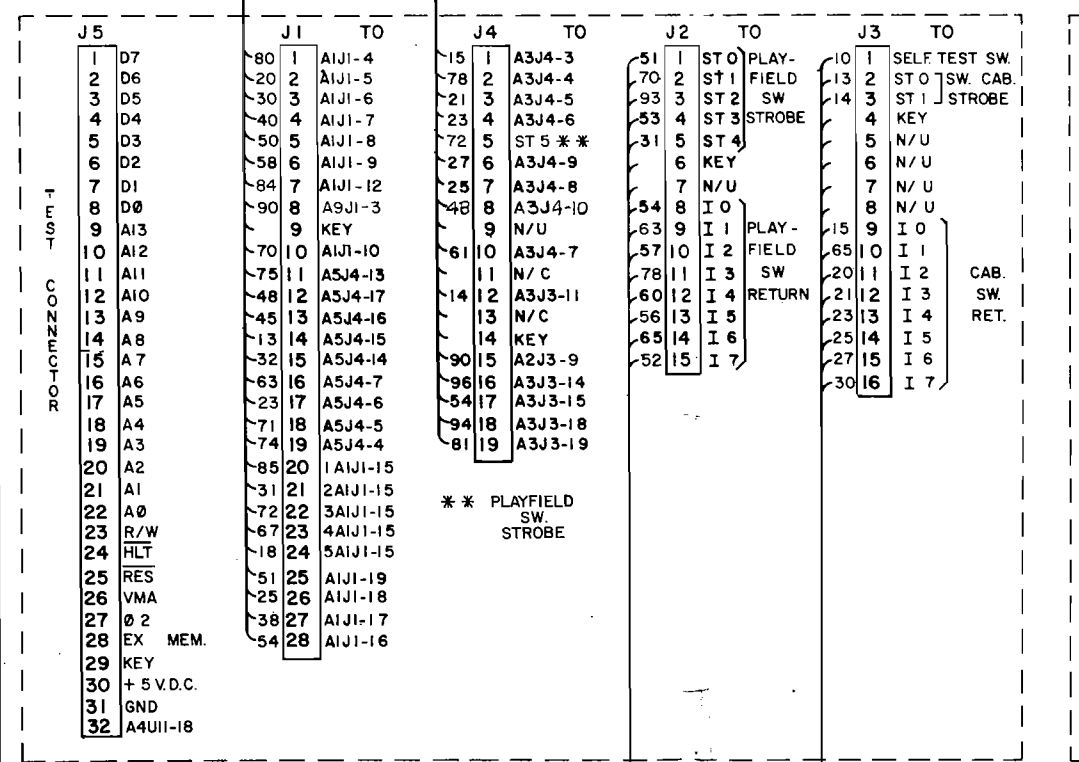
FROM	PIN	WIRE
A5J2-14	1	12
A5J2-2	2	20
A5J2-15	3	23
A5J2-16	4	34
A5J2-1	5	60
A4J4-5	6	72
A5J2-1	7	85
A5J2-7	8	91
A4J4-16	9	96
A5J2-20	10	98

PANEL TO BACK BOX

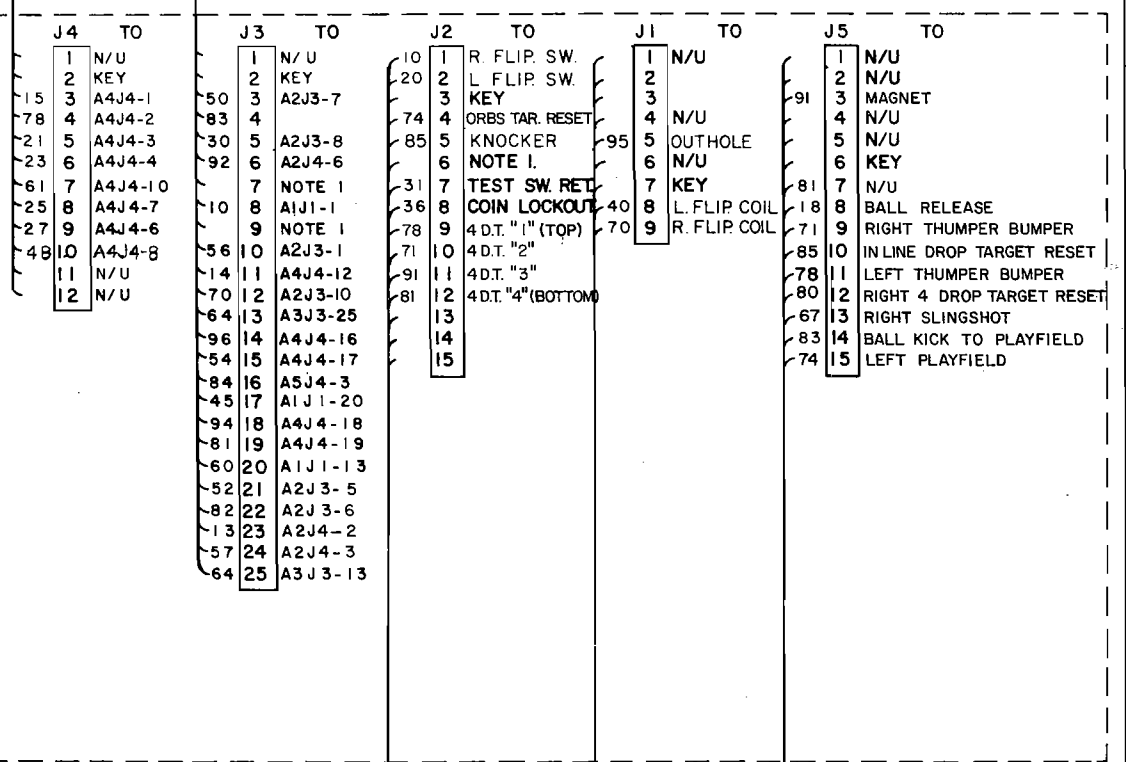
LAMP DRIVER A5



MPU A4



VOLTAGE REGULATOR / SOLENOID DRIVER A3

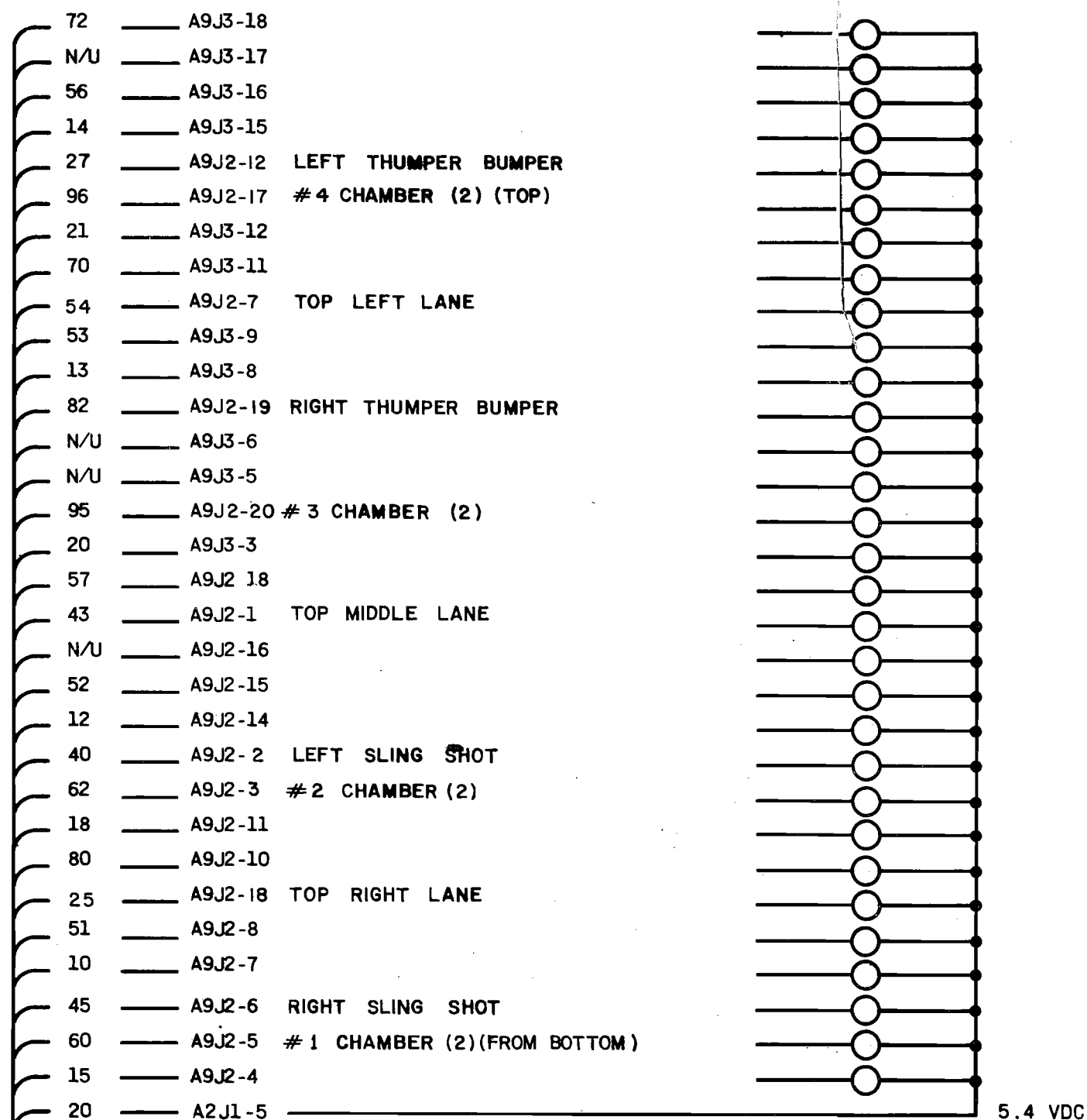


TO LOWER CABINET
TO PLAYFIELD

- NOTES:
1. THESE PINS ARE RESERVED FOR FUTURE USE.
 2. WIRE COLOR ARE SHOWN FOR ALL CONNECTOR PINS, SOME WIRE MAY NOT BE USED IN ALL GAMES.
 3. * INDICATES AID TEST POINT.

WIRE COLOR CODE	
1-RED	6-BROWN
2-BLUE	7-ORANGE
3-YELLOW	8-BLACK
4-GREEN	9-GRAY
5-WHITE	0-NO TRACE

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Bally MANUFACTURING CORP. 2640 BELMONT AVENUE CHICAGO, ILLINOIS 60648	
1239	
NAME WIRING DIAGRAM BACKBOX	
MATERIAL CENTAUR	
PART NO. W-1187-32c	



TO 
W-1207- II

ALL DESIGN, OPERATIVE AND PROCESS DATA PERTAINING TO THE ARTICLE SHOWN ON THIS SHEET IS THE PROPERTY OF BALLY MFG. CORP. CHICAGO, ILL. THIS INFORMATION IS DISCLOSED IN CONFIDENCE AND IS NOT TO BE COPIED, REPRODUCED, REVEALED OR APPROPRIATED BY OTHERS. IN PART OR IN WHOLE, WITHOUT THE EXPRESS CONSENT OF THE OWNERS. THE PRINT IS LOANED AND MUST NOT BE USED IN ANY MANNER DETRIMENTAL TO THE INTEREST OF THE OWNERS, AND MUST BE RETURNED ON DEMAND.

TO W-1207- II				<table><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>																																								<div>REMOVED ALL BURRS</div> <div>TOLERANCES ON DIMENSIONS UNLESS OTHERWISE SPECIFIED FRACTIONS ± .008 DECIMALS ± .003 EXCEPT HOLE DIA.'S ANGLES ± 1/2°</div> <div>DO NOT SCALE DRAWING</div>				<div>DR. BY DATE</div> <div>CK. BY DATE</div> <div>AP'D BY DATE JD 7-22-81</div> <div>AP'D BY DATE 100 7-21-81</div> <div>FINISH:</div> <div>HARDENING:</div>				<div>Bally MANUFACTURING CORP. 2640 BELMONT AVENUE CHICAGO, ILLINOIS 1239</div> <div>PRINT CONTROL</div> <div>DIE SIZE- C.C.- FT. PER M- LBS. PER M-</div> <div>NAME WIRING DIAGRAM PLAYFIELD</div> <div>MATERIAL CENTAUR</div> <div>CODE</div> <div>ASSEM. NO. USED W-1255-2</div> <div>SCALE</div>			
OPER.	DEPT.	DESCRIPTION	TOOL NO.	NO.	LET.	CHANGE	DATE	BY																																															

NOTES:

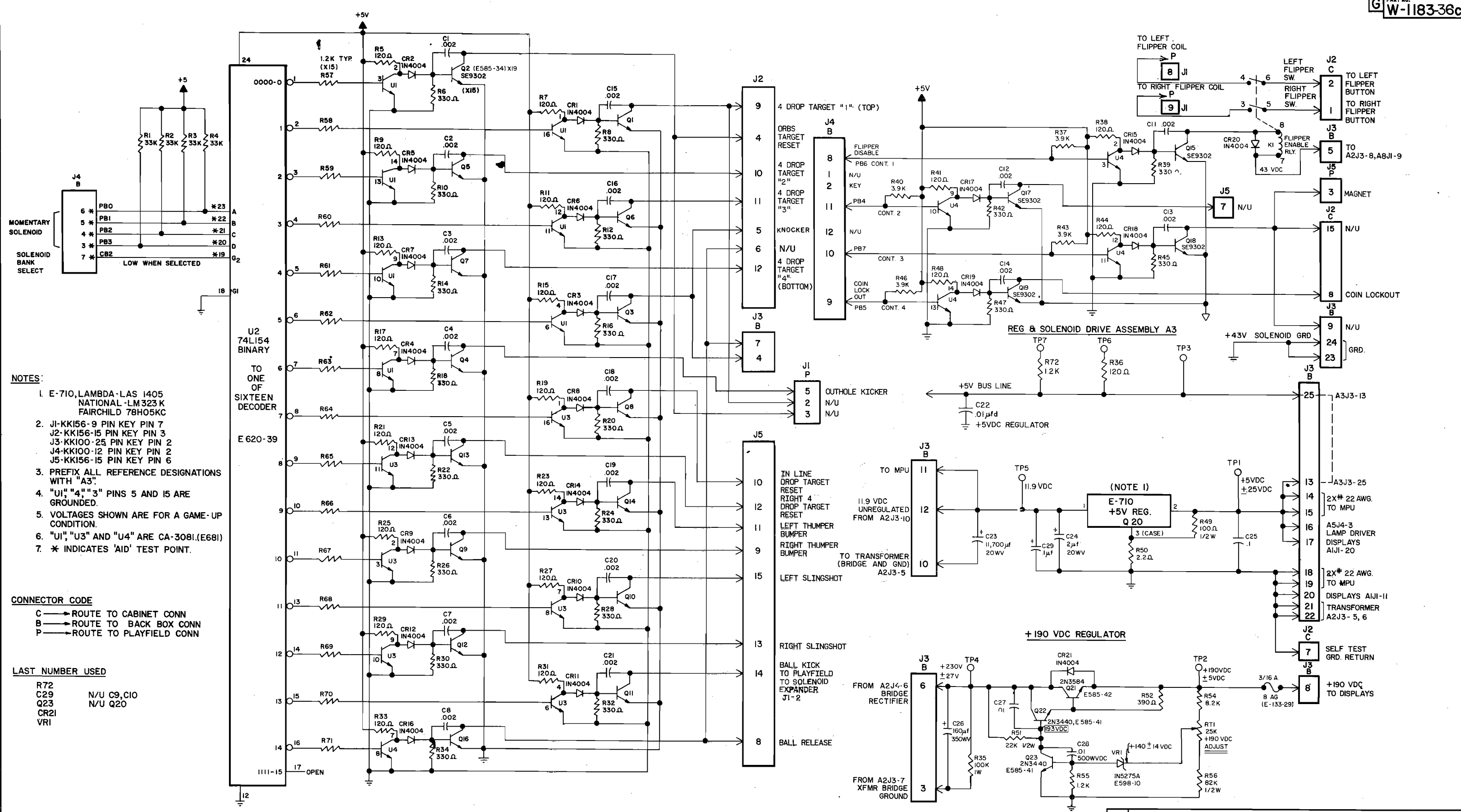
1. E-710, LAMBDA-LAS 1405 NATIONAL - LM 323 K FAIRCHILD 78H05KC
2. J1-KK156-9 PIN KEY PIN 7
J2-KK156-15 PIN KEY PIN 3
J3-KK100-25 PIN KEY PIN 2
J4-KK100-12 PIN KEY PIN 2
J5-KK156-15 PIN KEY PIN 6
3. PREFIX ALL REFERENCE DESIGNATIONS WITH "A3"
4. "U1", "U4", "U3" PINS 5 AND 15 ARE GROUNDED.
5. VOLTAGES SHOWN ARE FOR A GAME-UP CONDITION.
6. "U1", "U3" AND "U4" ARE CA-3081.(E681)
7. * INDICATES 'AID' TEST POINT.

CONNECTOR CODE

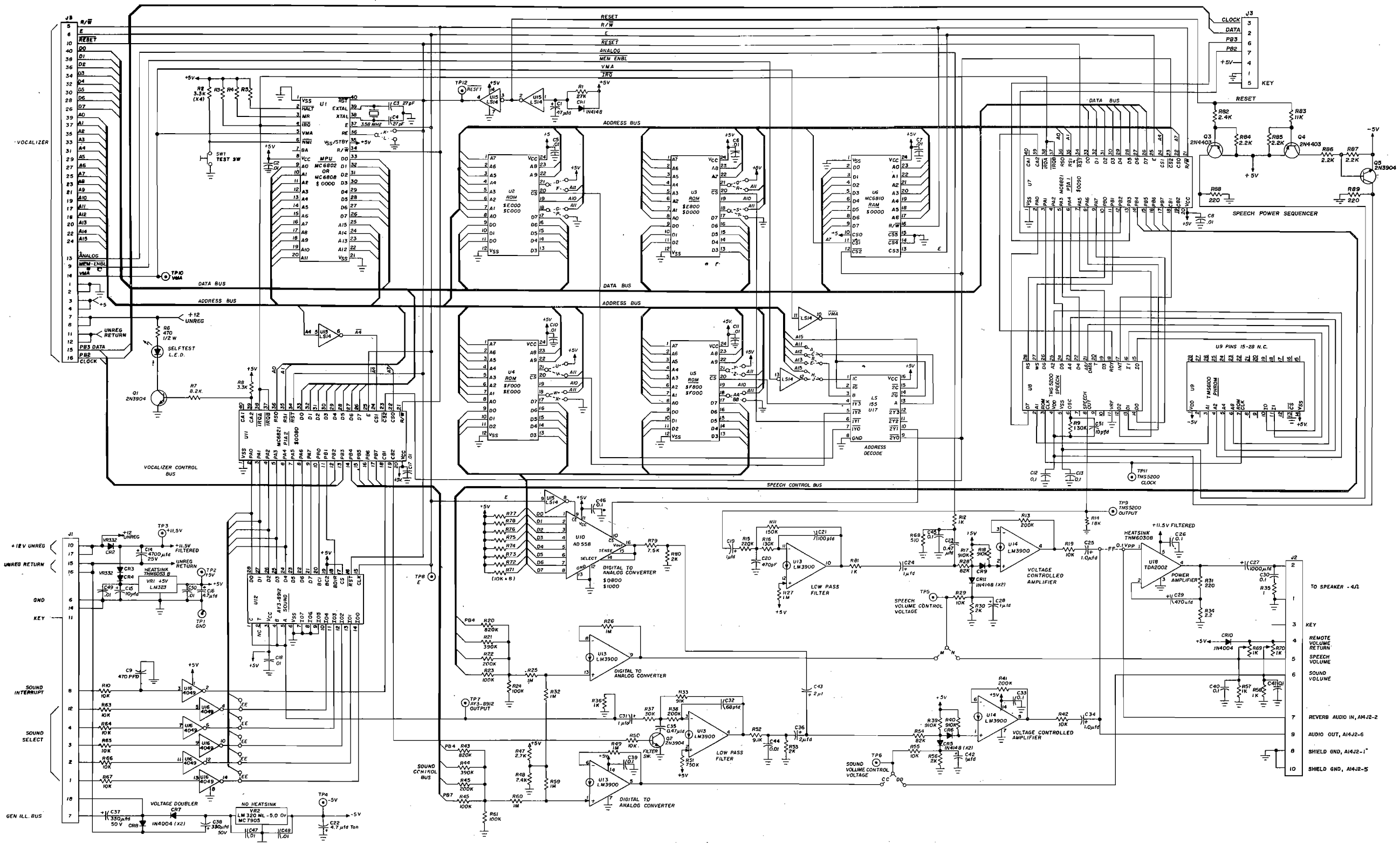
- C → ROUTE TO CABINET CONN
B → ROUTE TO BACK BOX CONN
P → ROUTE TO PLAYFIELD CONN

LAST NUMBER USED

- R72 N/U C9, C10
C29 N/U Q20
Q23 N/U Q20
CR21
VRI



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<p>REMOVE ALL BURNS</p>		<p>DR. BY: J. S. DATE: 6-2-81</p>	
<p>TOLERANCES ON DIMENSIONS UNLESS OTHERWISE SPECIFIED:</p>		<p>AP'D BY: J. S. DATE: 6-2-81</p>	
<p>FRACTIONS = 008</p>		<p>PRINT CONTROL</p>	
<p>DECIMALS = 003</p>		<p>DIE SIZE: C.C. FT. PER M. LBS. PER M.</p>	
<p>EXCEPT HOLE DIA. 5</p>		<p>NAME: SOLENOID DRIVER VOLTAGE REGULATOR SCHEMATIC</p>	
<p>ANGLES = 1 2°</p>		<p>ASSEM. NO. USED: 1239</p>	
<p>DO NOT SCALE DRAWING</p>		<p>SCALE</p>	
<p>HARDENING:</p>		<p>MATERIAL: CENTAUR</p>	
<p>NO. LET. CHANGE DATE BY</p>		<p>PART NO. W-1183-36c</p>	



NOTES:

1. UNLESS OTHERWISE INDICATED ALL RESISTOR VALUES ARE IN OHMS.

LAST NUMBERS USED

R89
C51
CR10
U18
VR2
Q5
TP12
FF

SQUAWK & TALK TEST POINTS

TP1-GND
TP2-+5VDC
TP3-+11.5VDC
TP4-SPEECH VOLUME
TP5-CONTROL VOLTAGE
TP6-SOUND VOLUME
TP7-AY3-8912 OUTPUT
TP8-+5VDC
TP9-TMS5200 OUTPUT
TP10-VMA
TP11-TMS5200 CLOCK
TP12-RESET

SQUAWK & TALK JUMPERS

FROM- ROM
2716 9316 A,B,D,R,T,U,Y,X,BB
2532 9332 C,E,G,Q,S,U,W,Y,AA
NO VOCALIZER H
WITH VOCALIZER J
6808 MPU L (WITH 6810 RAM)
6802 MPU K (NO 6810 RAM)
NO AY3-8912 EE
NO "SAY IT AGAIN" FF

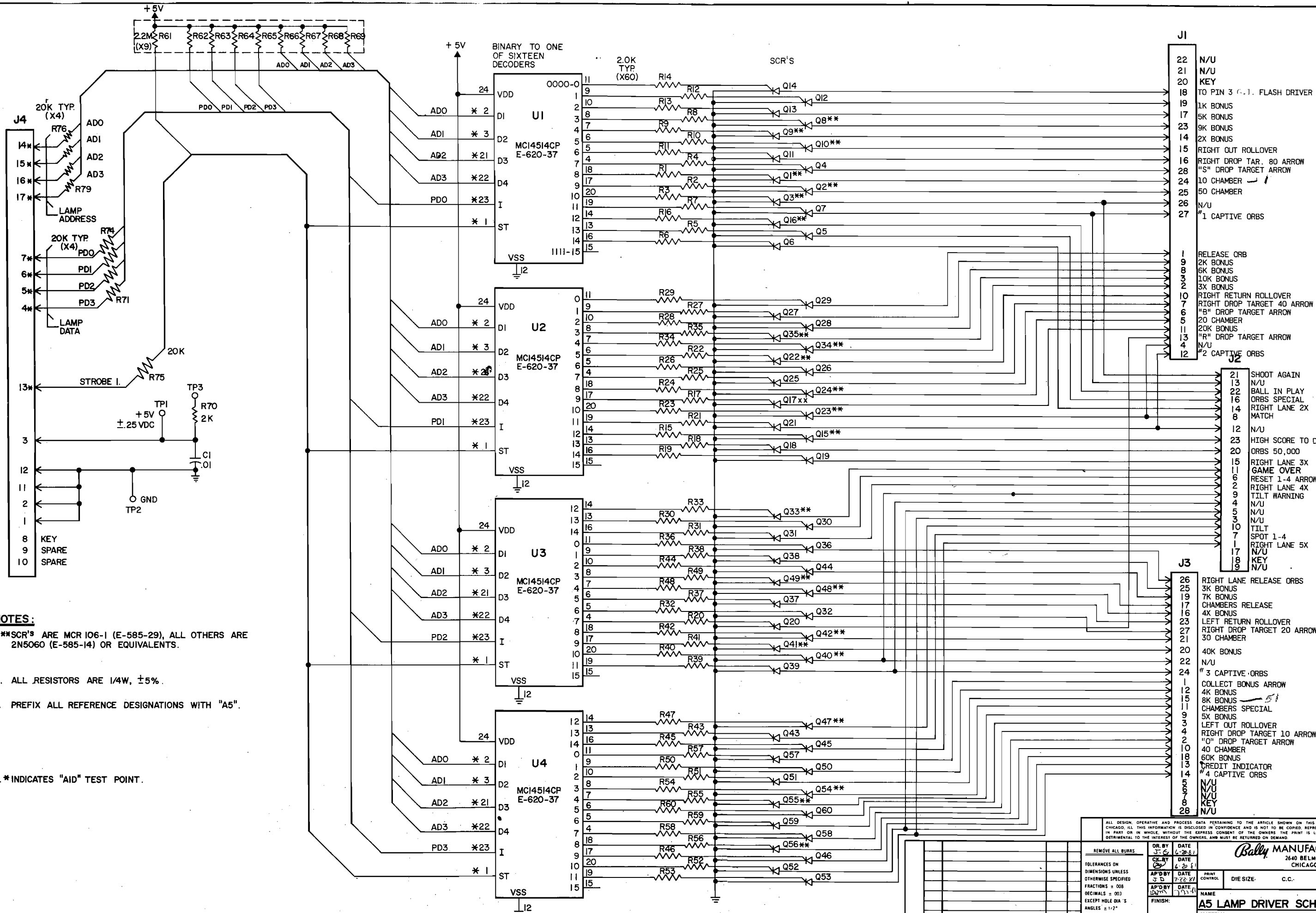
COMPUTER VOLUME CONTROL
REMOTE VOLUME CONTROL

SPEECH SOUND

CC DD M N

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BALLY MANUFACTURING CORP.		CHICAGO, ILLINOIS	
DATE	1/23/79	DESIGNER	CC
BY	CC	CHECKED	CC
APPROVED	CC	DATE	1/23/79
SQUAWK & TALK SCHEMATIC AS		PART NO. W-1250-20	



- NOTES:**
1. **SCR'S ARE MCR 106-1 (E-585-29), ALL OTHERS ARE 2N5060 (E-585-14) OR EQUIVALENTS.
 2. ALL RESISTORS ARE 1/4W, $\pm 5\%$.
 3. PREFIX ALL REFERENCE DESIGNATIONS WITH "A5".
 4. * INDICATES "AID" TEST POINT.

- J1**
- 22 N/U
 - 21 N/U
 - 20 KEY
 - 18 TO PIN 3 (C-1) FLASH DRIVER
 - 19 1K BONUS
 - 17 5K BONUS
 - 23 9K BONUS
 - 14 2X BONUS
 - 15 RIGHT OUT ROLLOVER
 - 16 RIGHT DROP TAR. 80 ARROW
 - 28 "S" DROP TARGET ARROW
 - 24 10 CHAMBER
 - 25 50 CHAMBER
 - 26 N/U
 - 27 #1 CAPTIVE ORBS
- J2**
- 19 RELEASE ORB
 - 18 2K BONUS
 - 17 6K BONUS
 - 16 10K BONUS
 - 15 3X BONUS
 - 14 RIGHT RETURN ROLLOVER
 - 13 RIGHT DROP TARGET 40 ARROW
 - 12 "B" DROP TARGET ARROW
 - 11 20 CHAMBER
 - 10 20K BONUS
 - 9 "R" DROP TARGET ARROW
 - 8 N/U
 - 7 #2 CAPTIVE ORBS
- J3**
- 26 RIGHT LANE RELEASE ORBS
 - 25 3K BONUS
 - 19 7K BONUS
 - 17 CHAMBERS RELEASE
 - 16 4X BONUS
 - 23 LEFT RETURN ROLLOVER
 - 27 RIGHT DROP TARGET 20 ARROW
 - 21 30 CHAMBER
 - 20 40K BONUS
 - 22 N/U
 - 24 #3 CAPTIVE ORBS
 - 12 COLLECT BONUS ARROW
 - 15 4K BONUS
 - 11 8K BONUS
 - 9 CHAMBERS SPECIAL
 - 3 5X BONUS
 - 4 LEFT OUT ROLLOVER
 - 2 RIGHT DROP TARGET 10 ARROW
 - 10 "O" DROP TARGET ARROW
 - 18 40 CHAMBER
 - 13 60K BONUS
 - 14 CREDIT INDICATOR
 - 5 #4 CAPTIVE ORBS
 - 8 N/U
 - 6 N/U
 - 7 KEY
 - 9 N/U

TO PLAYFIELD

TO BACK BOX

TO PLAYFIELD

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Bally MANUFACTURING CORP.
2640 BELMONT AVENUE
CHICAGO, ILLINOIS 60647

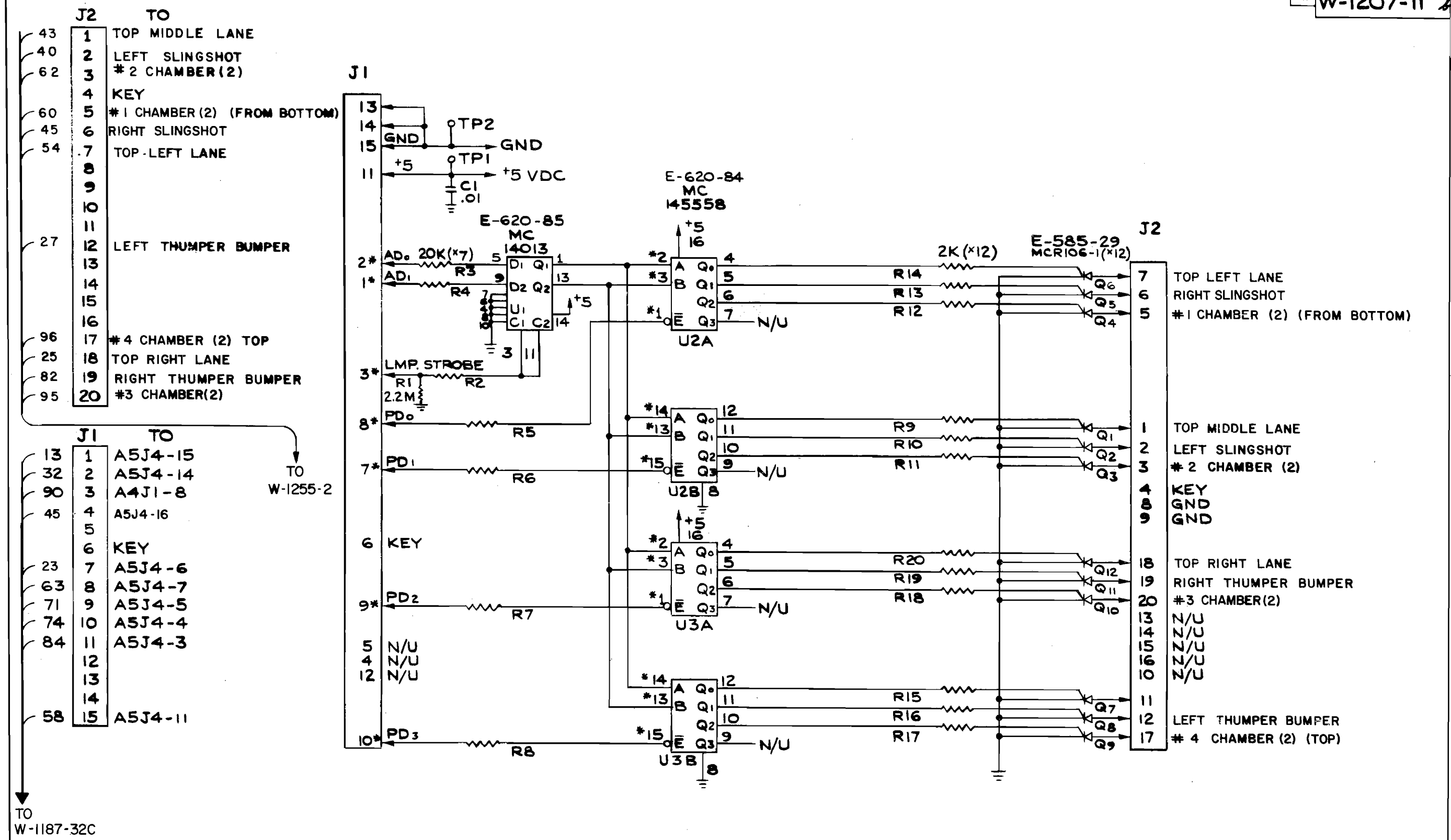
DATE: 6-28-81
BY: J.D.
APPROVED: J.D.
DATE: 7-22-81
FINISH: 100%

REMOVE ALL BURRS
TOLERANCES ON DIMENSIONS UNLESS OTHERWISE SPECIFIED
FRACTIONS = 008
DECIMALS = 003
EXCEPT HOLE DIA'S
ANGLES = 1:2"

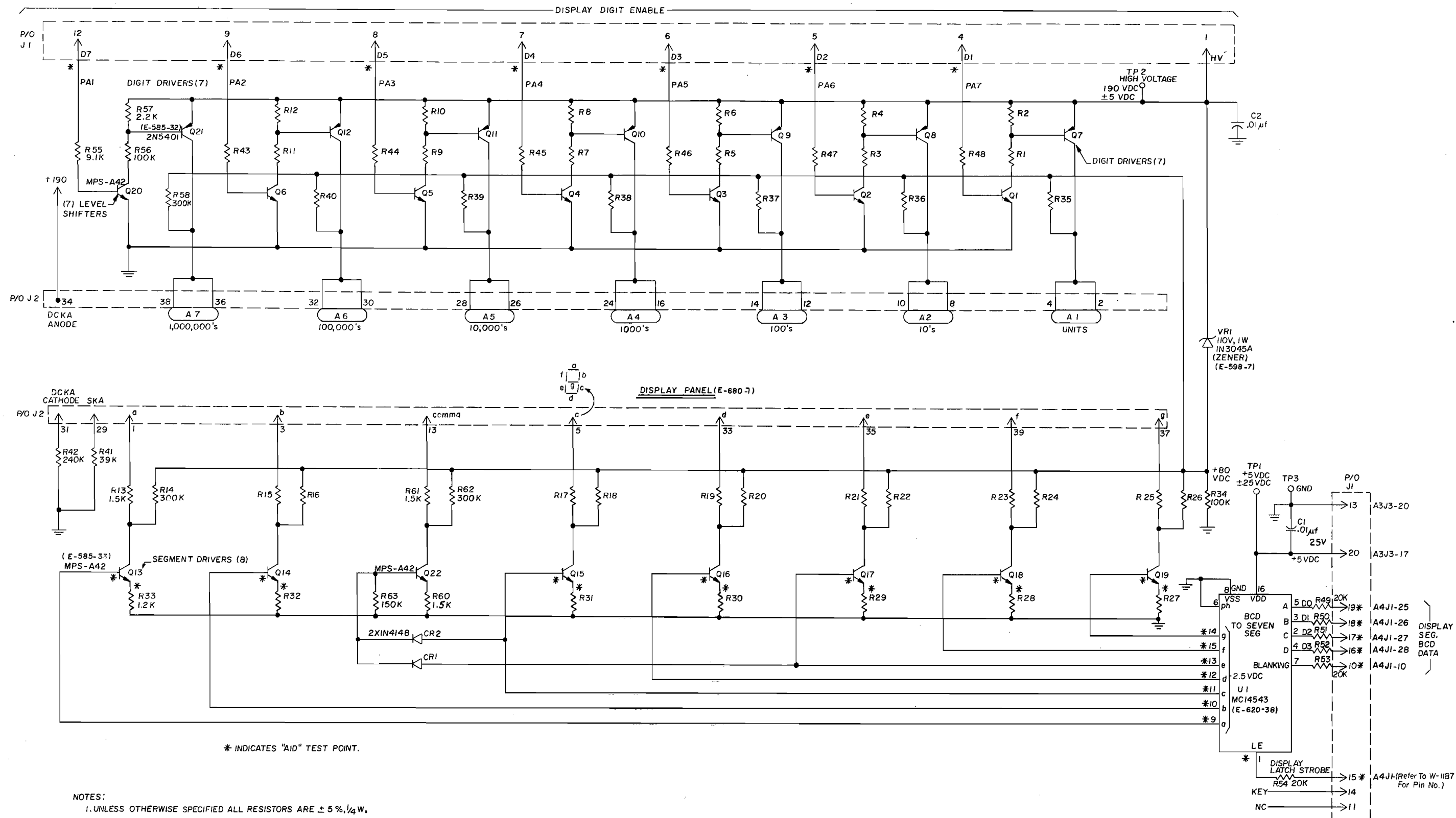
NO. LET. CHANGE DATE BY

NAME: A5 LAMP DRIVER SCHEMATIC
MATERIAL: CENTAUR
HARDENING: CODE

ASSEMBLY NO. USED: SCALE
PART NO. W-1182-36c



OPER.					DEPT.					DESCRIPTION					TOOL NO.				
NO.					LET.					CHANGE					DATE				
BY																			

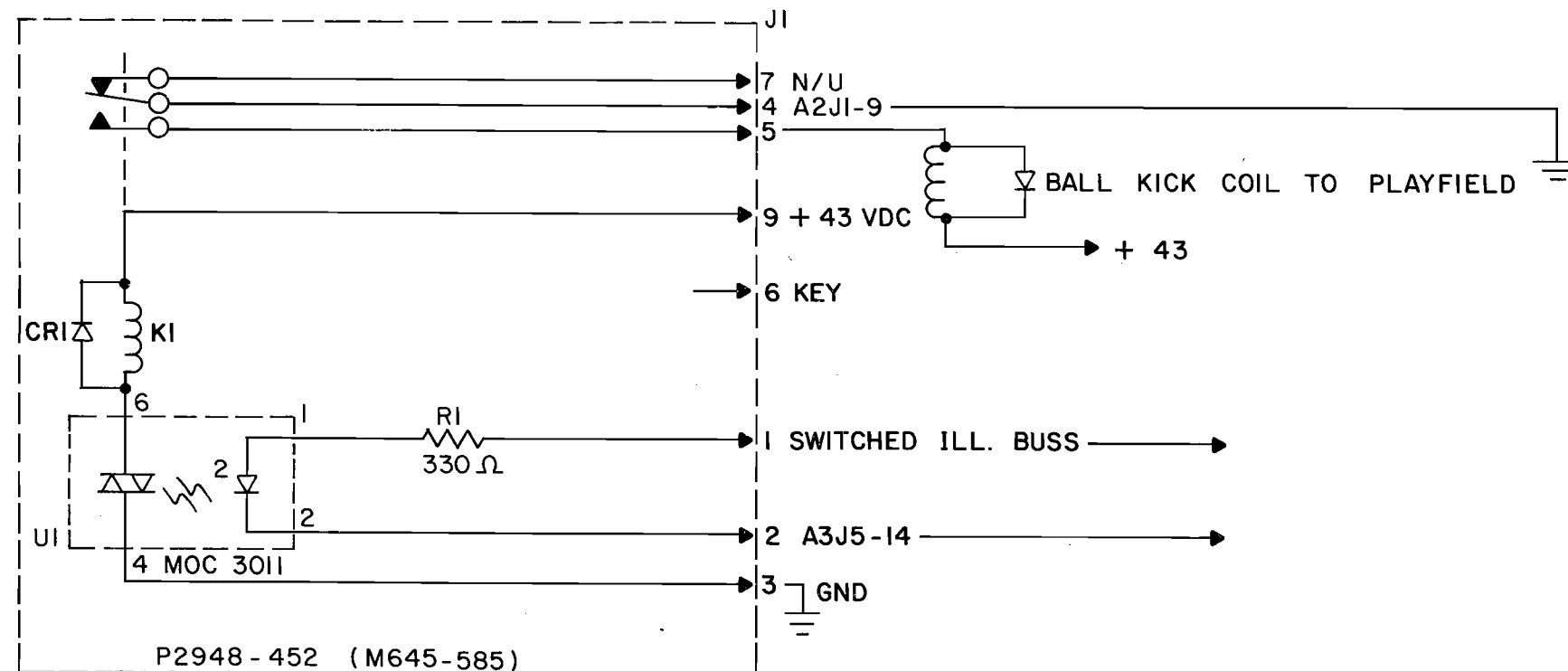


NOTES:

- UNLESS OTHERWISE SPECIFIED ALL RESISTORS ARE ± 5%, 1/4 W.
- PREFIX ALL REFERENCE DESIG. WITH ASSEMBLY REFERENCE DESIG. "A 1".

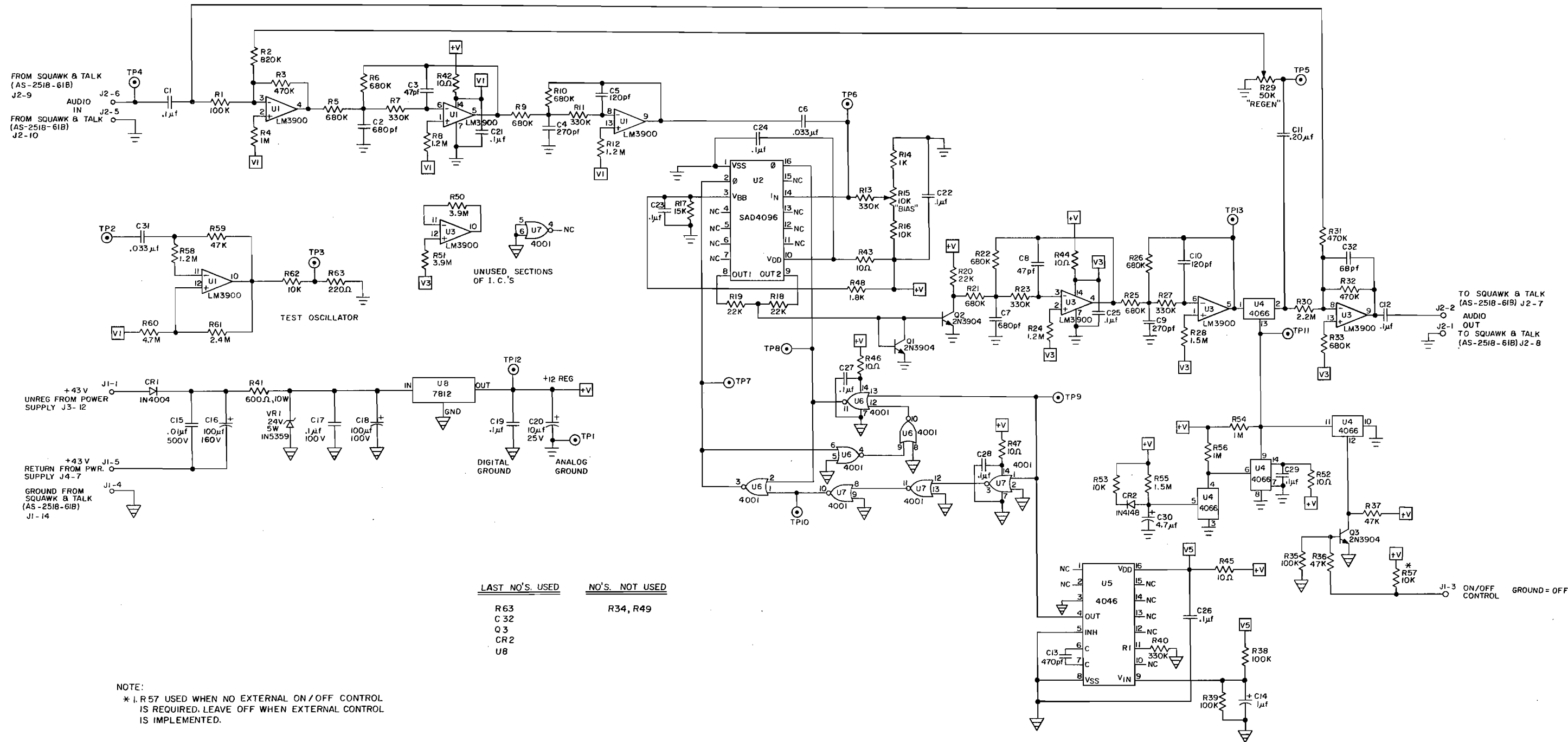
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DR. BY DATE FEC 6-18-0		Bally MANUFACTURING CORP. 2640 BELMONT AVENUE CHICAGO, ILLINOIS		1210	
CK. BY DATE APR 6-19-80		DIE SIZE: C.C. FT. PER M. LBS. PER M.		ASSEM. NO. USED	
AP'D BY DATE		NAME 7 DIGIT DISPLAY BOARD SCHEMATIC "A1"		SCALE	
AB'D BY DATE		MATERIAL		PART NO.	
FINISH:		CODE		W-1184-2c	
HARDENING:					
DO NOT SCALE DRAWING					



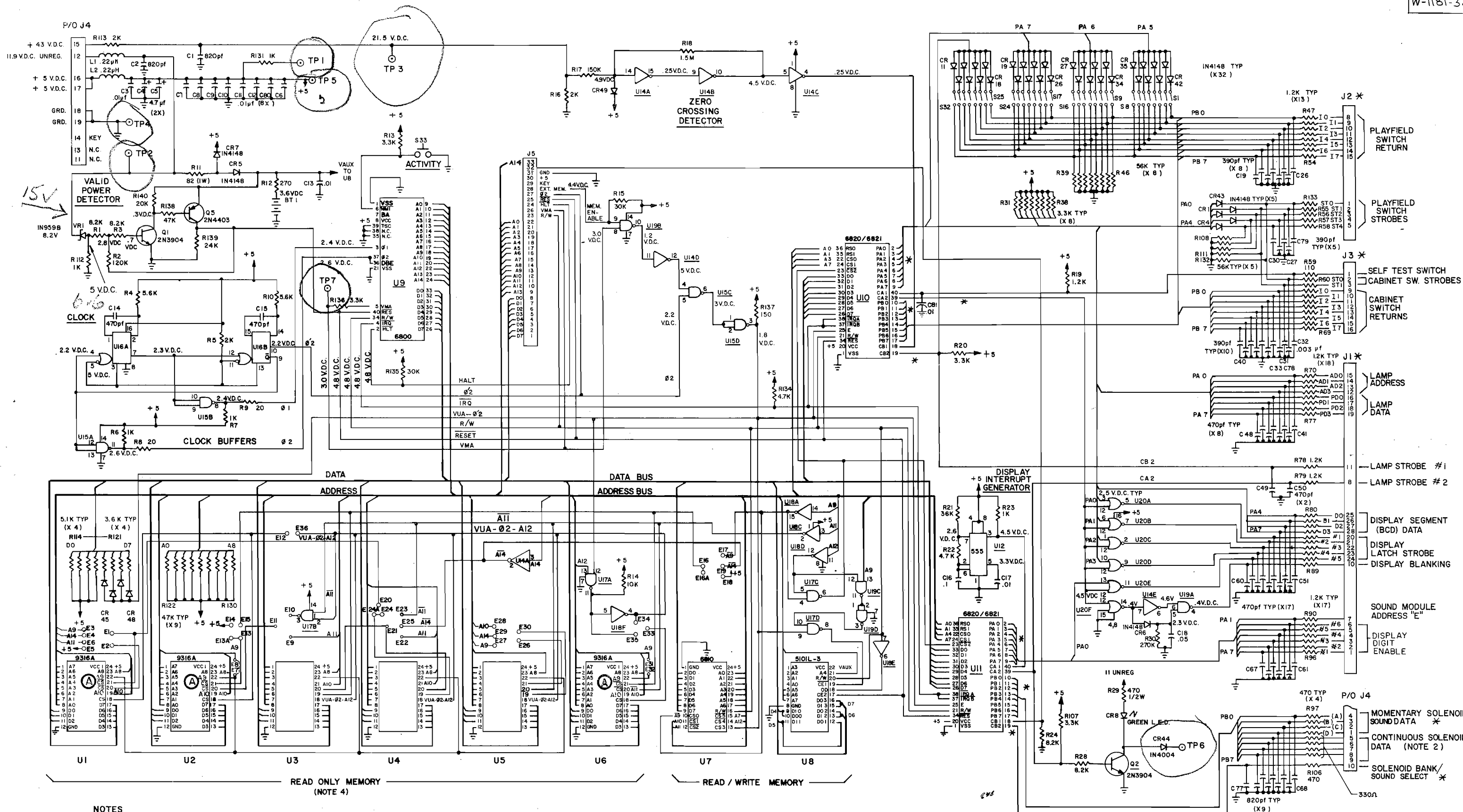
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					REMOVE ALL BURRS					DR. BY JCG		DATE 10-5-81		Bally MANUFACTURING CORP. 2640 BELMONT AVENUE CHICAGO, ILLINOIS # 1239													
					TOLERANCES ON DIMENSIONS UNLESS OTHERWISE SPECIFIED FRACTIONS ± .008 DECIMALS ± .003 EXCEPT HOLE DIA.'S ANGLES ± 1/2°					CK-BY JD		DATE 10-5-81		PRINT CONTROL		DIE SIZE- C.C.- FT. PER M- LBS. PER M-											
					DO NOT SCALE DRAWING					AP'D BY JD		DATE 10-6-81		NAME SOLENOID EXPANDER (SCHEMATIC)										ASSEM. NO. USED AS-2518-66		SCALE	
										AP'D BY JBS		DATE 10-6-81		MATERIAL										PART NO. W-1251-1 b			
NO.		LET.		CHANGE		DATE		BY		HARDENING:		CODE															



LAST NO'S. USED	NO'S. NOT USED
R63 C32 Q3 CR2 U8	R34, R49

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REMOVE ALL BURRS TOLERANCES ON DIMENSIONS UNLESS OTHERWISE SPECIFIED FRACTIONS ± .008 DECIMALS ± .003 EXCEPT HOLE DIA'S ANGLES ± 1/2° DO NOT SCALE DRAWING		DR. BY DATE CK. BY DATE AP'D BY DATE AP'D BY DATE FINISH HARDENING	
BALLY MANUFACTURING CORP. 2640 BELMONT AVENUE CHICAGO, ILLINOIS # 1239		NAME SAY IT AGAIN (SCHEMATIC) MATERIAL CODE	
ASSEM. NO. USED AS-2518-81		PART NO. W-1258 c	

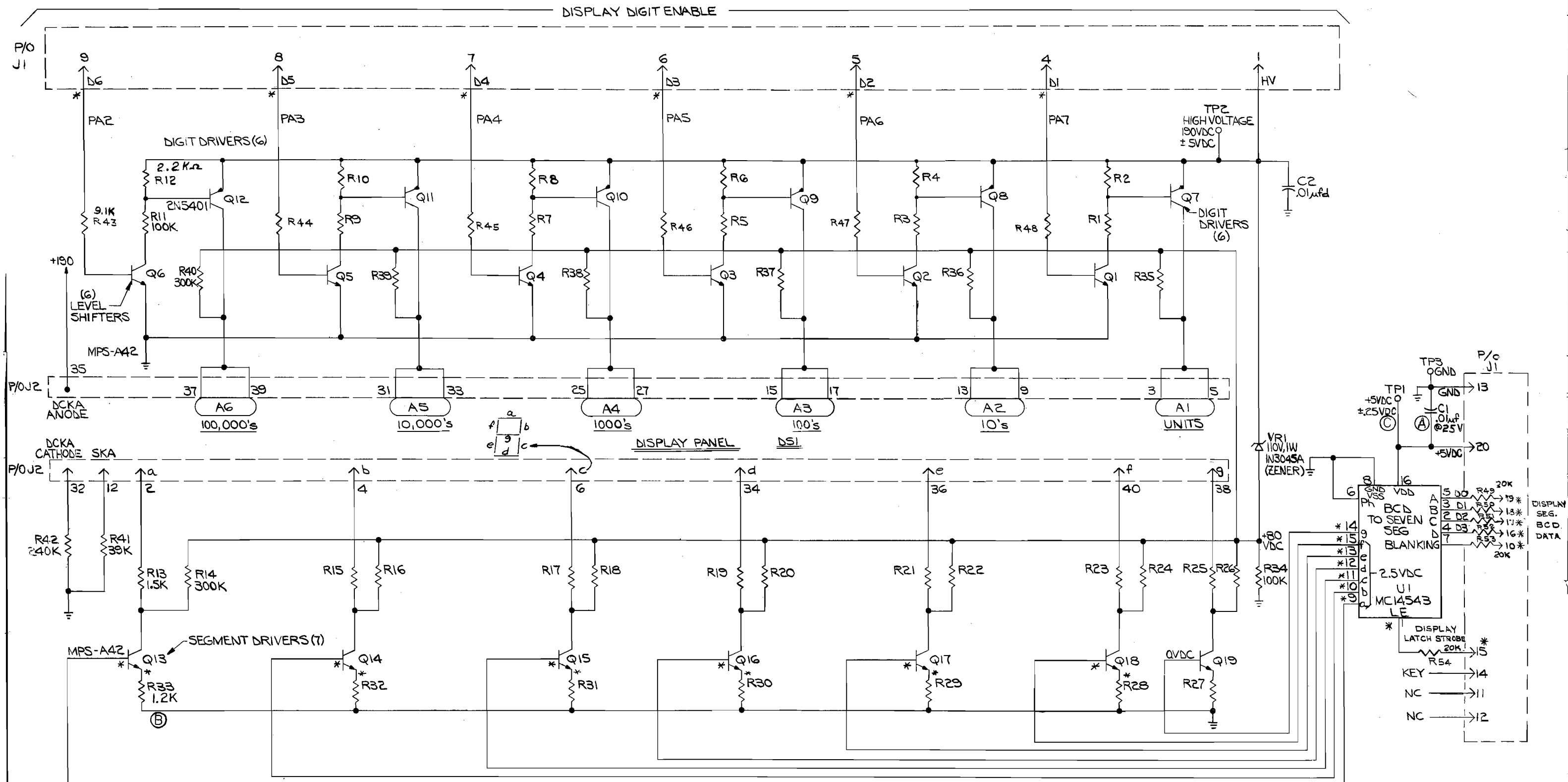


NOTES

1. * INDICATES "AID" TEST POINT.
2. REMOVE A3J4 BEFORE USING AS AID TEST POINT
3. PREFIX ALL REFERENCE DESIGNATIONS WITH "A4"
4. EXACT CHIP COMPLEMENT USED IN SOCKETS U1 THRU U6 CAN VARY FOR DIFFERENT GAMES AND PRODUCTION LOTS. TABLES OF MEMORY CHIPS AND CORRESPONDING JUMPERS FOR DIFFERENT GAMES AVAILABLE FROM BALLY FIELD SERVICE DEPARTMENT.

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<p>REMOVE ALL BURRS</p> <p>TOLERANCES ON DIMENSIONS UNLESS OTHERWISE SPECIFIED</p> <p>FRACTIONS - 1/64</p> <p>DECIMALS - .005</p> <p>ANGLES - 1°</p> <p>DO NOT SCALE DRAWING</p>										<p>DR. BY DATE E V 5-11-78</p> <p>CR. BY DATE E M 5-15-78</p> <p>AP'D BY DATE E V 5-15-78</p> <p>AP'D BY DATE E V 5-15-78</p> <p>FINISH:</p> <p>HARDENING:</p>										<p>Bally MANUFACTURING CORP.</p> <p>2640 BELMONT AVENUE CHICAGO, ILLINOIS 60618</p> <p>PRINT CONTROL</p> <p>NAME M.P.U. CONTROL BOARD SCHEMATIC</p> <p>MATERIAL</p>										<p>TOTAL 1119-E</p> <p>SCALE</p> <p>ASSEM. NO. USED ON W</p> <p>PART NO. W-1181-3 c</p>									
---	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	---	--	--	--	--	--	--	--	--	--	---	--	--	--	--	--	--	--	--	--



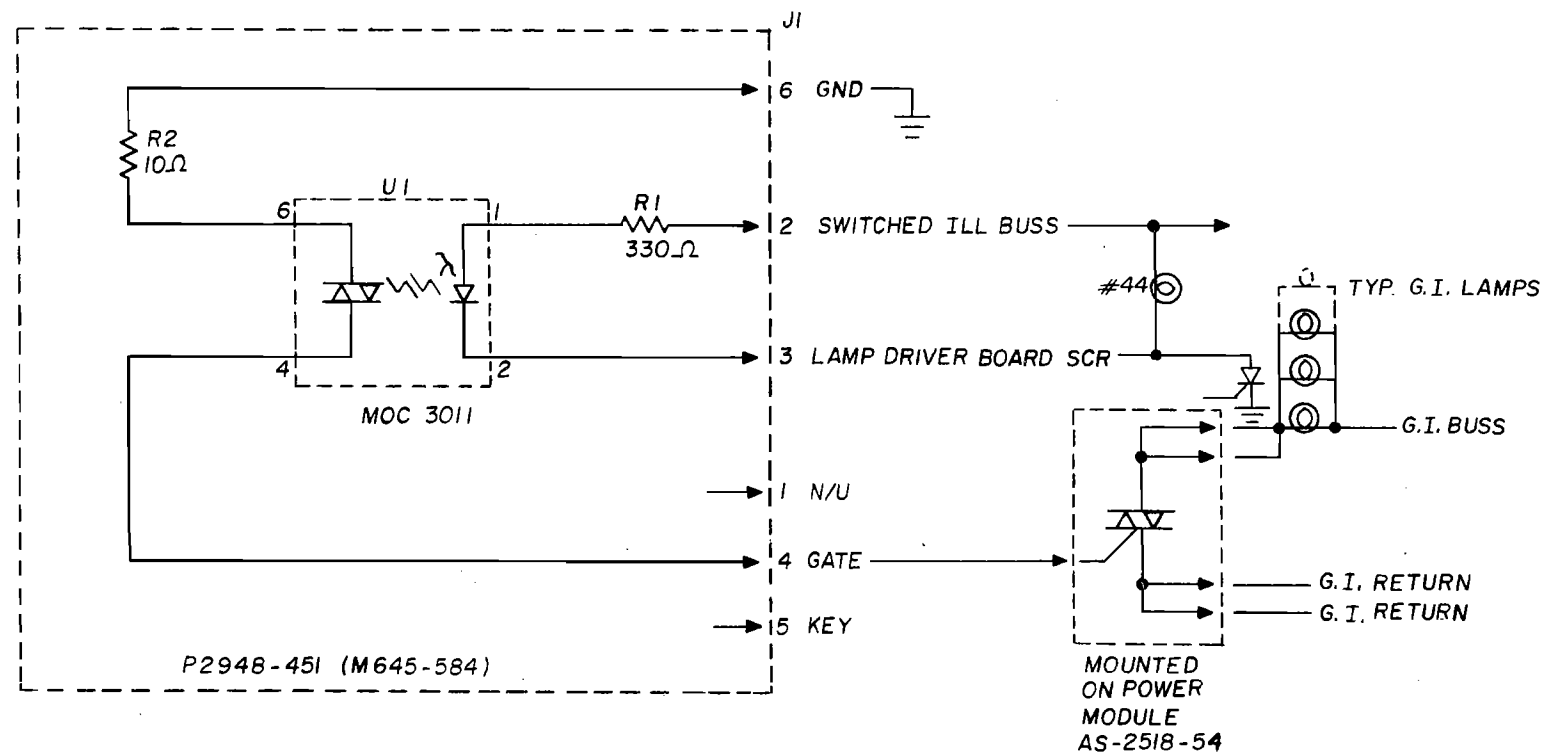
NOTES:

1. UNLESS OTHERWISE SPECIFIED ALL RESISTORS ARE $\pm 5\%$, $1/4W$.
2. PREFIX ALL REFERENCE DESIG. WITH ASSEMBLY REFERENCE DESIG. "A1"
3. * INDICATES 'AID' TEST POINT.

OPER.	DEPT.	DESCRIPTION	TOOL No.
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3	C	WAS VAC	620-88	J.
2	B	WAS IK	32880	J.
1	A	WAS 500V	4-K79	J.
NO.	LET.	CHANGE	DATE	BY

DR. BY	DATE	Bally MANUFACTURING CORP. #110-E											
DG	7/27												
CR. BY	DATE	2640 BELMONT AVENUE											
CR	7/27	CHICAGO, ILLINOIS										MAGNETICS	
PRD BY	DATE	PRINT	COUNT	COPY	FILE	RECORD	EDIT	INDEX	TRIM	TEST	TOTAL	SCALE	
PRD	7/27	→										2	
APP'D BY	DATE												
APP'D	7/27												
FINISH	7/27												
NAME		6 DIGIT										ASSEM. NO. USED ON/W	
DISPLAY BOARD SCHEMATIC A												AS-2518-21	
MATERIAL												PART NO.	
HARDENING												W-1184-Jc	

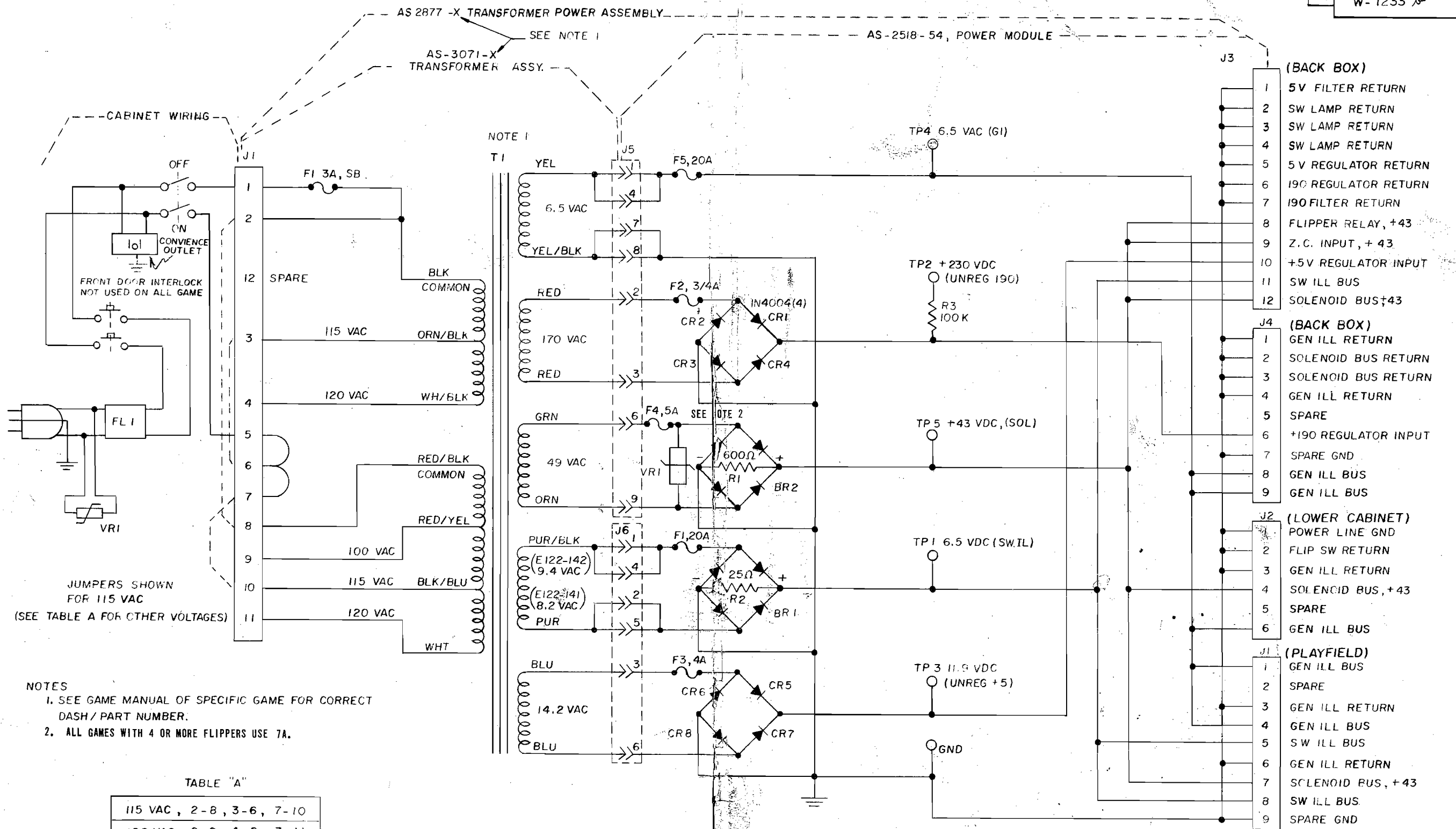


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REMOVE ALL BURRS		DR. BY FFC	DATE 1-22-81	Bally MANUFACTURING CORP. #1219 2640 BELMONT AVENUE CHICAGO, ILLINOIS	
TOLERANCES ON DIMENSIONS UNLESS OTHERWISE SPECIFIED		CK. BY	DATE	PRINT CONTROL	DIE SIZE. C.C. FT. PER M. LBS. PER M.
FRACTIONS ± .008		AP'D BY JSM	DATE 1-23-81	NAME	ASSEM. NO. USED
DECIMALS ± .003		AP'D BY JSM	DATE 1-23-81	G I FLASHER (SCHEMATIC)	AS-2518-68
EXCEPT HOLE DIA.'S		FINISH:		MATERIAL	PART NO.
ANGLES ± 1/2°		HARDENING:		CODE	W-1253 b
DO NOT SCALE DRAWING					

NO.	LET.	CHANGE	DATE	BY

OPER.	DEPT.	DESCRIPTION	TOOL NO.



NOTES

1. SEE GAME MANUAL OF SPECIFIC GAME FOR CORRECT DASH / PART NUMBER.

2. ALL GAMES WITH 4 OR MORE FLIPPERS USE 7A.

TABLE "A"	
115 VAC	2-8, 3-6, 7-10
120 VAC	2-8, 4-6, 7-11
220 VAC	4-8, 7-9
240 VAC	4-8, 7-11

OPER.		DEPT.	DESCRIPTION	TOOL NO.						
NO.		LET.	DATE	BY						
REMOVE ALL BURRS										
TOLERANCES ON DIMENSIONS UNLESS OTHERWISE SPECIFIED										
FRACTIONS ± .008										
DECIMALS ± .003										
EXCEPT HOLE DIA'S										
ANGLES ± 1/2°										
DO NOT SCALE DRAWING										
DR. BY FFC		DATE 7-10-80		Bally MANUFACTURING CORP. 2640 BELMONT AVENUE CHICAGO, ILLINOIS #1196						
CK. BY AMCR		DATE 7-11-80								
AP'D BY		DATE								
AP'D BY		DATE								
FINISH:		HARDENING:		PRINT CONTROL	DIE SIZE	C.C.	FT. PER M.	LBS. PER M.		
NAME					POWER SUPPLY SCHEMATIC				ASSEM. NO. USED	SCALE
MATERIAL					CODE				PART NO.	W-1233